

A TAXONOMIC EVALUATION OF RECENT AND FOSSIL NON-MITRID SPECIES PROPOSED IN THE FAMILY MITRIDAE (MOLLUSCA: GASTROPODA)

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Abstract. 274 taxa originally proposed in the family Mitridae are here re-assigned to the families Strombidae (1 sp.), Fasciolariidae (16), Muricidae (1), Buccinidae (6), Columbellidae (18), Nassariidae (1), Volutidae (67), Volutomitridae (99), Olividae (1), Marginellidae (11), Cancellariidae (6), Turridae (36) and the terrestrial Oleacinidae (1). The familial status of 10 species remains undetermined.

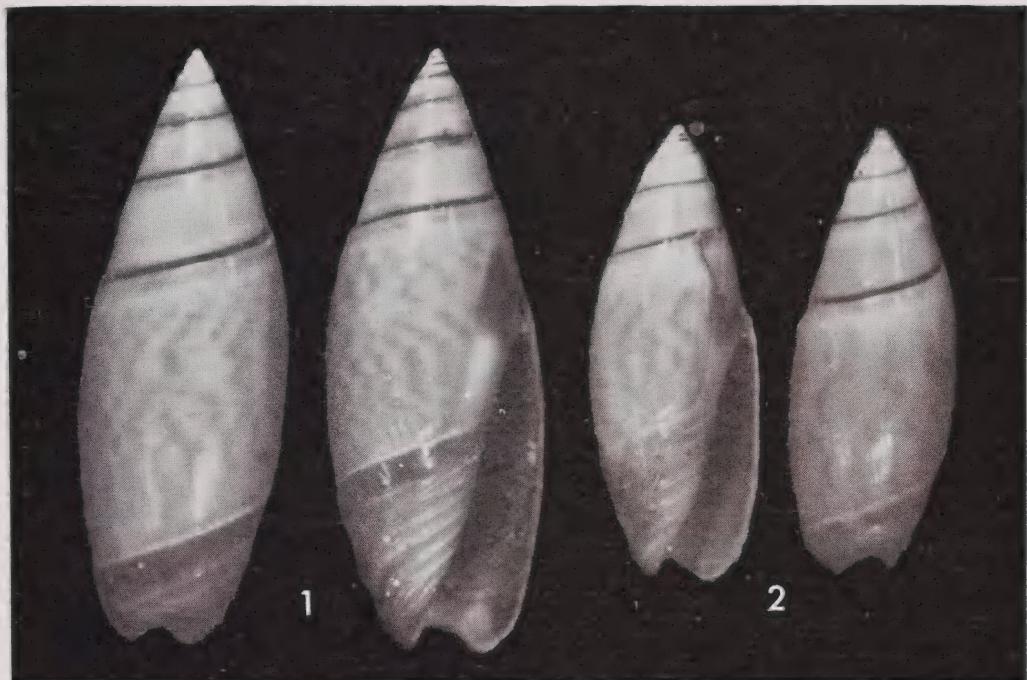
During a current revision of the gastropod family Mitridae, the examination of types, original descriptions and type figures of described species necessitated a re-assignment of 274 species to 13 other molluscan families. The location of type species, where known, is indicated, and the abbreviations for the respective Museums and Institutions are as follows:

AIM	= Auckland Institute & Museum, Auckland, New Zealand
AMS	= Australian Museum, Sydney, Australia
ANSP	= Academy of Natural Sciences of Philadelphia, Philadelphia, U.S.A.
BMNH	= British Museum (Natural History), London, England
CAS	= California Academy of Sciences, San Francisco, U.S.A.
CM	= Canterbury Museum, Christchurch, New Zealand
DM	= Dominion Museum, Wellington, New Zealand
IRSN	= Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium
MHNG	= Muséum d'Histoire Naturelle, Geneva, Switzerland
MNHNP	= Museum National d'Histoire Naturelle, Paris, France
NZGS	= New Zealand Geological Survey, Lower Hutt, New Zealand
OUM	= Otago University Museum, Dunedin, New Zealand
SMF	= Senckenberg Museum, Frankfurt a.M., Germany
UA	= University of Auckland (Dept. of Geology), Auckland, New Zealand
USNM	= National Museum of Natural History, Washington, U.S.A. (formerly U.S. National Museum)
ZIHU	= Zoological Institut, Humboldt University, Berlin, Germany
ZMUC	= Zoological Museum, University of Copenhagen, Denmark

The following list is in alphabetical order of trivial names, regardless of genera.

Mitra affinis Lesson, 1842 (Figs. 1 - 2)
Mitra affinis Lesson, 1842, Rev. Zool. Soc. Cuvier. 5: 142. Gambier I., Tuamotu Archipelago
 = error! Types MNHNP: 19.5 & 15.0mm.

This is a synonym of *Olivella (Lamprodoma) volutella* (Lamarck, 1811) from the west coast of central America.



Figs. 1-2. *Mitra affinis* Lesson. Syntypes MNHN, length 19.5mm and 15.0mm respectively. Gambier I., Tuamotus = error! (= *Olivella volutella* (Lamarck), west coast of America). (Photo: Muséum National d'Histoire Naturelle, Paris).

***Mitra alabamensis* Tomlin, 1920**

Mitra alabamensis Tomlin, 1920, *Nautilus* 33: 134. Claiborne, Alabama; Eocene.

Proposed as a superfluous substitute name for *Mitra elegans* Lea, 1840, the species is a synonym of *Terebrifusus amoenus* (Conrad, 1865), in the family Buccinidae.

***Mitra albopicta* E. A. Smith, 1898**

Mitra albopicta E. A. Smith, 1898, *Proc. Mal. Soc. London* 3: 21, textfig. 5. Mokohinau I., New Zealand. Type NZGS No. TM-919: 21.5 x 9.5mm.

A synonym of *Waimatea obscura* (Hutton, 1873), family Volutomitridae.

***Mitra alizalis* Anderson & Hanna, 1925**

Mitra alizalis Anderson & Hanna, 1925, *Occ. Pap. Calif. Acad. Sci.* 11: 76. Live Oak Creek, Tejon form., Californian; U. Eocene. Type CAS No. 361: 4.7 x 3.1mm.

A species of *Conomitra* Conrad, 1865, family Volutomitridae.

***Strigatella americana* Dall, 1915**

Strigatella americana Dall, 1915, *U.S. Nat. Mus. Bull.* 90: 61, pl. 9, fig. 2. Chipola River marls, Florida; L. Miocene. Type USNM No. 114343: 28.0 x 15.0 x 20.0mm.

A species of *Enaeta* H. & A. Adams, 1853, family Volutidae, and very similar to *E. isabellae* (Maury, 1910).

***Pterygia amoena* Röding, 1798**

Pterygia amoena Röding, 1798, *Mus. Bolten.* p. 51. Loc.: ?

A synonym of *Pyrene (Columbella) mercatoria* (Linnaeus, 1758), family Columbellidae.

***Mitra (Terebrifusus) amoena* de Gregorio, 1890**

Mitra (Terebrifusus) amoena de Gregorio, 1890, *Ann. Geol. Pal. Palermo* 7: 76, pl. 5, fig. 61. Claiborne & Lisbon, Alabama; Eocene.

A synonym of *Terebrifusus amoenus* (Conrad, 1865), family Buccinidae, and a homonym of *Mitra amoena* A. Adams, 1853.

Pterygia ancilla Röding, 1798*Pterygia ancilla* Röding, 1798, Mus. Bolten. p. 52. Loc.: ?A synonym of *Adelomelon ancilla* (Lightfoot, 1786), family Volutidae.**Mitra (Conomitra) angulata** Heilprin, 1887*Mitra (Conomitra) angulata* Heilprin, 1887, Trans. Wagner Free Inst. Sci. Philad. 1: 110, pl. 15, fig. 47. Ballast Pt., Silex beds, Florida; Miocene.A synonym of *Conomitra staminea* (Conrad, 1848), family Volutomitridae.**Mitra anticoronata** Johnston, 1880*Mitra anticoronata* Johnston, 1880, Proc. R. Soc. Tasmania p. 34. Table Cape, Tasmania; L. Miocene. 13.0 x 5.0 x 7.0mm.

Probably a member of the family Volutomitridae. The species has never been illustrated and the type is either lost or mislaid.

Mitra apicalis Hutton, 1873*Mitra apicalis* Hutton, 1873, Cat. Tert. Moll. Echin. N.Z. p. 7. Awamoia, New Zealand; L. Miocene. Holotype lost.A species of *Proximitra* Finlay, 1927, family Volutomitridae.**Vexillum apicicostatum** Suter, 1917*Vexillum apicicostatum* Suter, 1917, N.Z. Geol. Surv. Pal. Bull. No. 5: 27, pl. 12, fig. 5. Marly greensands, Waihao River, S. Canterbury, New Zealand; M. Eocene. Holotype NZGS 11.6 x 5.2 x 7.6mm.A member of *Waimatea* Finlay, 1927, family Volutomitridae.**Mitra (Mitromorpha) aptycha** Böttger, 1906*Mitra (Mitromorpha) aptycha* Böttger, 1906, Verh. Mitt. Ver. Nat. Herrmannstadt 54: 12. Zilch, 1934. Senckenbergiana 16: pl. 18, fig. 38. Kostej, Banat; Miocene. Type SMF: 8.25 x 3.5 x 4.75mm.

The species belongs to the family Turridae.

Mitra (Cancilla) armorica Suter, 1917*Mitra (Cancilla) armorica* Suter, 1917, N.Z. Geol. Surv. Pal. Bull. No. 5: 27, pl. 12, fig. 4. Blue Cliffs, S. Canterbury, New Zealand; L. Miocene. Type CM: 20.0 x 8.0mm.A New Zealand subspecies of *Proximitra atractoides* (Tate, 1889), family Volutomitridae.**Cylindromitra asphaltodes** Beets, 1943*Cylindromitra asphaltodes* Beets, 1943, Leid. geol. Meded. 13: 292, pl. 29, figs. 82, 83. Waisiu, Buton I., Indonesia; U. Oligocene. 38.0mm.A species of *Mitreola* Swainson, 1823, family Volutidae.**Mitra atractoides** Tate, 1889*Mitra atractoides* Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 139, pl. 4, fig. 11. Lower beds at Muddy Creek, Victoria, Australia; M. Miocene. 21.0 x 7.0 x 12.0mm.A member of *Proximitra* Finlay, family Volutomitridae.**Mitra atypha** Tate, 1889*Mitra atypha* Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 138, pl. 4, fig. 6. Upper beds at Muddy Creek, Victoria, Australia; Pliocene. 10.0 x 4.5 x 5.5mm.

This species belongs to the family Volutomitridae.

Mitra (Turris?) bairdii Dall, 1889*Mitra (Turris?) bairdii* Dall, 1889, Bull. Mus. Comp. Zool. Harvard 18: 161; Bull. U.S. Nat. Mus. No. 37: 110, 189. pl. 42, fig. 7. 100 miles S.E. by S. from Cape Fear, N. Carolina, 528 fathoms. Type USNM No. 86962: 34.2 x 8.6 x 11.6mm.

The species has been tentatively assigned to the family Volutomitridae.

Mitra (Mitreola) bernayi Cossmann, 1889*Mitra (Mitreola) bernayi* Cossmann, 1889, Ann. Soc. R. Malac. Belg. 4: 186, pl. 7, fig. 2. Vaudancourt, Paris Basin; Eocene. 18.0 x 8.0mm.The species is a *Mitreola* Swainson, family Volutidae.

Mitra berthelini Cossmann, 1897

Mitra berthelini Cossmann, 1897, Bull. Soc. Sci. Nat. d'Ouest 6: 238, pl. 9, figs. 16, 17. La Close, Basin de Campbon, France; Eocene. 5.0 x 2.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra biconica Whitfield, 1865

Mitra biconica Whitfield, 1865, Amer. Jour. Conch. 1: 263; Powell, 1966, Bull. Auckland Inst. Mus. No. 5: 59. Prairie Bluff, Alabama; Eocene.

A species of *Cordieria* Roualt, 1848, family Turridae.

Vulpecula (Pusia) biconica Murdoch & Suter, 1906

Vulpecula (Pusia) biconica Murdoch & Suter, 1906, Trans. Proc. N.Z. Inst. 38: 289, pl. 23, fig. 22. Off Cuvier I., New Zealand, 37 fathoms. Type DM: 5.0 x 2.8 x 2.5mm.

A species of *Microvoluta* Angas, 1877, family Volutomitridae.

Mitra biconica Sykes, 1911

Mitra biconica Sykes, 1911, Proc. Mal. Soc. London 9: 334, textfig.; 1912, Proc. Mal. Soc. London 12: 4. Mediterranean. Types BMNH No. 1885.11.5.3570: 8.2 x 3.0 x 4.3mm; 8.4mm; 8.2mm.

A synonym of *Aphanitoma locardi* Bavay, 1906, family Turridae, and a homonym of *Mitra biconica* Whitfield, 1865.

Mitra bicornis Laws, 1936

Mitra bicornis Laws, 1936, Trans. Proc. R. Soc. N.Z. 66: 113, pl. 16, fig. 66. Kaawa Creek, New Zealand; L. Pliocene. Type UA: 10.0 x 4.5mm.

The species belongs to the genus *Peculator* Iredale, 1924, family Volutomitridae.

Mitra biplicata Philippi, 1847

Mitra biplicata Philippi, 1847, Palaeontographica 1: 77, pl. 10a, figs. 16a, b. Germany: Oligocene.

A synonym of *Cordieria delucii* (Nyst, 1836), family Turridae, and a homonym of *Mitra biplicata* Risso, 1826. Philippi's taxon preoccupies the European Eocene *Cordieria biplicata* (Sowerby, 1850).

Mitra biplicata Hanley in Wood, 1856

Mitra biplicata Hanley in Wood, 1856, Ind. Testac. ed. 2, p. 106, pl. 21, fig. 27. Loc.: ?

A new combination for *Pyrene biplicata* (Gmelin, 1791), family Columbellidae, and a homonym of *Mitra biplicata* Risso, 1826.

Mitra bolaris Conrad, 1833

Mitra bolaris Conrad, 1833. Foss. shells Tert. form. N. Amer. 1: 34. Claiborne, Alabama; Eocene. Lectotype ANSP No. 14262.

A species of *Caricella* Conrad, 1835, family Volutidae.

Mitra (Mitreola) bonetti Cossmann 1901

Mitra (Mitreola) bonetti Cossmann, 1901, Ann. Soc. R. Mal. Belg. 36: 57, pl. 7, fig. 3. Chaumont, Paris Basin; Eocene. 32.0 x 10.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Strigatella (Mitreola) brachyspira Cossmann & Pissaro, 1901

Strigatella (Mitreola) brachyspira Cossmann & Pissaro, 1901, Bull. Soc. géol. Normandie 20: 90, pl. 10, fig. 18. Hauteville, Cotentin; Eocene. 19.0 x 8.5mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra brocchii de Serres, 1829

Mitra brocchii de Serres, 1829, Geog. Terr. Tert. p. 125. Les marnes argileuses bleus, Midi, Italy.

This is a synonym of *Mitrella turgidula* (Brocchi, 1814), family Columbellidae.

Mitra calcarata Sasso, 1827

Mitra calcarata Sasso, 1827, Giorn. Ligust. Sci. Genova 1: 481 (ref. to Brocchi, 1814, pl. 3, fig. 7). Basin of Albenga, Italy; Mio/Pliocene.

The species is referable to the family Cancellariidae.

Mitra carolinensis Conrad, 1841

Mitra carolinensis Conrad, 1841, Amer. Journ. Sci. Arts 41: 345, pl. 2, fig. 5. Duplin County, N. Carolina; Miocene. Paratype ANSP No. 1618: 73.0 x 24.0mm.

A new combination for *Voluta carolinensis* Conrad, 1840, which is a *Pleioptygma* Conrad, 1863, family Volutidae.

Mitra cassida Tate, 1889

Mitra cassida Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 144, pl. 6, fig. 5. Upper beds at Muddy Creek, Victoria, Australia; Pliocene. 7.0 x 4.0 x 5.5mm.

A species of *Peculator* Iredale, family Volutomitridae.

Mitra (Mitreola) chaussyensis Cossmann, 1906

Mitra (Mitreola) chaussyensis Cossmann, 1906, Ann. Soc. R. Mal. Belg. 41: 268, pl. 10, fig. 202-23. Chaussy, Paris Basin; Eocene. 68.0 x 25.0mm.

The species appears to be a *Lapparia* Conrad, 1855, family Volutidae.

Mitra circumfossa Beyrich, 1854

Mitra circumfossa Beyrich, 1854, Zeit. deut. geol. Gesell. 6: 413, pl. 8, figs. 6a, b. Westeregeln, Magdeburg, Germany; L. Oligocene. 16.0 x 6.7mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra citharella Lamarck, 1803

Mitra citharella Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 60. Grignon, Paris Basin; Eocene.

The original description of the series was based on an immature specimen of *Mitreola varicosta* (Lamarck, 1803), family Volutidae.

Mitra citharella d'Orbigny, 1850

Mitra citharella d'Orbigny, 1850, Prodr. Pal. Strat. Univ. 2: 353. Parnes & Mouchy, Paris Basin; Eocene.

Proposed as a substitute name for the non mitrid *Auricula citharella* Deshayes, 1835, the name is a homonym of *Mitra citharella* Lamarck, 1803.

Mitra citharelloides Tate, 1889

Mitra citharelloides Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 143, pl. 5, fig. 11. Blanche Pt., Aldinga Bay, Sth. Australia; Miocene. 9.5 x 3.5 x 5.0mm.

Darragh (1970) placed this species in the vexilline mitrid genus *Austromitra* Finlay, 1927. The species, however, has only 2 columellar folds which are placed centrally on the columella, a definite siphonal spout and an unnotched and slightly reverted siphonal canal. The species closely resembles New Zealand species of *Vexithara* Finlay, 1926, and would be more appropriately placed in the subfamily Mitromorphinae, family Turridae.

Mitra claibornensis Conrad, 1860

Mitra claibornensis Conrad, 1860, J. Acad. Nat. Sci. Philad. 4: pl. 47, fig. 6. Claiborne Bluff, Alabama; M. Miocene.

A synonym of *Lapparia paetilis* (Conrad, 1833), family Volutidae.

Mitra clandestina Reeve, 1845

Mitra clandestina Reeve, 1845, Conch. Icon. pl. 32, sp. 263. Loc.: ?

A synonym of *Mitrolumna olivoidea* (Cantraine, 1835), family Turridae.

Mitra clathrata Reuss, 1845

Mitra clathrata Reuss, 1845, Verst. Boehm. Kreidef. pt. 1: 44, pl. 11, fig. 13. Moronitz, Bohemia, Czechoslovakia; U. Cretaceous.

The species is not a mitrid and may possibly be a fasciolarid. The name is a homonym of *Mitra clathrata* Defrance in Blainville, 1824.

Mitra clathurella Tate, 1889

Mitra clathurella Tate, 1889, Trans. R. Soc. Sth. Austr. 11: 142, pl. 8, fig. 8. Lower beds at Muddy Creek, Victoria, Australia; M. Miocene. 6.0 x 2.75 x 4.0mm.

A species of the genus *Proximitra* Finlay, 1927, subgenus *Parvimitra* Finlay, 1930, family Volutomitridae.

Mitra coarctata Tenison-Wood, 1880

Mitra coarctata Tenison-Woods, 1880, Proc. Linn. Soc. N.S.W. 4: 8, pl. 2, fig. 10. Muddy Creek, Victoria, Australia; Tertiary. 7.0 x 2.66mm.

A synonym of *Marginella winteri* Tate, 1878, family Marginellidae, and a homonym of *Mitra coarctata* Reeve, 1844.

Uromitra cognatella Toldo, 1889

Uromitra cognatella Toldo, 1889, Bull. Soc. Mal. Ital. 14: 147, pl. 3, fig. 8. Montegibio, Italy; U. Miocene. 6.0 x 2.6mm.

A species of *Microvoluta* Angas, family Volutomitridae.

Mitra columbellaria Scacchi, 1837

Mitra columbellaria Scacchi, 1837, Cat. Conch. reg. Neapol. p. 10, figs. 12, 13. Bay of Naples and fossil on the island of Inarimes.

A synonym of *Mitrolumna olivoidea* (Cantraine, 1835), family Turridae.

Mitra columbellata Grateloup, 1847

Mitra columbellata Grateloup, 1847, Conch. foss. terr. Tert. Adour, Atlas, pl. 1, fig. 23. Dax, France; Miocene.

A synonym of *Mitrella turgidula* (Brocchi, 1814), family Columbellidae.

Mitra columbellina A. Adams, 1853

Mitra columbellina A. Adams, Proc. Zool. Soc. London pt. 19: 141. Loc.: ?; *Mitra columbellaria* (sic) Sowerby, 1874, Thes. Conchyl. 4: 19, pl. 28, fig. 660.

The type could not be located in the British Museum (Nat. Hist) and is presumably lost. The specimen (?) type figured by Sowerby (1874) is a species of Columbellidae.

Mitra columbelloides Anton, 1839

Mitra columbelloides Anton, 1839, Verz. Conchyl. p. 69. Paris Basin; Eocene.

A species of *Mitreola* Swainson, family Volutidae.

Mitra columbulae Brusina, 1865

Mitra columbulae Brusina, 1865, Verh. zool.-bot. Gesell. Wien 15: 14. Ragusa, Dalmatia.

The species belongs to the family Columbellidae.

Mitra complanata Tate, 1889

Mitra complanata Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 138, pl. 5, fig. 12. Adelaide Bore, Sth. Australia; Pliocene. 8.0 x 3.5 x 5.0mm.

A species of *Waimatea* Finlay, family Volutomitridae.

Mitra concinna Beyrich, 1854

Mitra concinna Beyrich, 1854, Zeit. geol. Gesell. 6: 415, pl. 8, figs. 9a, b. Osterweddingen, Magdeburg, Germany; L. Oligocene. 8.0-9.0 x 3.5 x 4.0mm.

A species of *Conomitra* Conrad, family Volutomitridae, and a synonym of *Mitra concinna* Reeve, 1844.

Mitra concidalis Tate, 1889

Mitra conoidalis Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 144, pl. 10, figs. 2a, b. Lower beds at Muddy Creek, Victoria; M. Miocene. 7.0 x 3.5 x 5.5mm.

A species of *Waimatea* Finlay, family Volutomitridae.

Mitra conuliformis Cossmann, 1897

Mitra conuliformis Cossmann, 1897, Bull. Soc. Sci. nat. L'Ouest 6: 240, pl. 9, figs. 13, 14. Campbon, France; Eocene. 22.0 x 10.5 x 13.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra corrugata Defrance in Blainville, 1824

Mitra corrugata Defrance in Blainville, 1824, Dict. Sci. Nat. 31: 493. Hauteville, France; Eocene.

A synonym of *Conomitra lennieri* (Cossmann & Pissarro, 1901), family Volutomitridae, and a homonym of *Mitra corrugata* Lamarck, 1811.

Mitra costulata Risso, 1826

Mitra costulata Risso, 1826, Hist. nat. L'Europe mérid. 4: 246, pl. 10, fig. 140. Mediterranean. 16.0mm.

A species of *Mitrella* Risso, 1826, family Columbellidae.

Mitra cotteai Cossmann & Lambert, 1884

Mitra cotteai Cossmann & Lambert, 1884, Mém. Soc. géol. France ser. 3, 3: 180, pl. 6, figs. 13a, b. Pierrefit, Etampes, Paris Basin; Oligocene.

A species of *Conomitra* Conrad, family Volutomitridae.

Pterygia crassa Röding, 1798

Pterygia crassa Röding, 1798, Mus. Bolten. p. 52. Loc.: ?

A synonym of *Marginella persicula* (Linnaeus, 1758), family Marginellidae.

Mitra crassidens Deshayes, 1835

Mitra crassidens Deshayes, 1835, Desc. coq. foss. env. Paris 2: 676, pl. 90, figs. 3, 4, 7, 8. Grignon, Mouchy, Paris Basin; Eocene. 25.0mm.

A species of *Mitreola* Swainson, family Volutidae, and a homonym of *Mitra crassidens* Broderip & Sowerby, 1829.

Mitra crymochara Rochebrune & Mabille, 1885

Mitra crymochara Rochebrune & Mabille, 1885, Bull. Soc. Phil. Paris 9: 102; 1889, Miss. scient. Cap Horn 6: 49, pl. 3, figs. 1a, b. Cap Horn, Sth. America.

A species of *Volutomitra* H. & A. Adams, 1853, subgenus *Paradmete* Strebel, 1908, family Volutomitridae.

Mitra cryptodon Fischer, 1882

Mitra cryptodon Fischer, 1882, Journ. Conchyl. 30: 273. Atlantic, 1900 metres. 31.0 x 10.0 x 15.0mm.

This is a prior name for *Latiromitra specialis* Locard, 1897, and is the type species of *Latiromitra* Locard, 1897, a subgenus of *Volutomitra* H. & A. Adams, family Volutomitridae.

Fusimitra danensis Cossmann, 1899

Fusimitra danensis Cossmann, 1899, Ess. paléoc. comp. 3: 168. Denmark, Paleocene.

Proposed as a substitute name for *Mitra semilaevis* Koenen, 1885 (non Edwards, 1856), the species belongs to *Conomitra* Conrad, family Volutomitridae.

Turricula (Fusimitra) danica Ravn, 1939

Turricula (Fusimitra) danica Ravn, 1939, Biol. Skr. K. Dansk. Vid. Selsk. 1: 82. Denmark; Paleocene.

Proposed as a substitute name for *Mitra semilaevis* Koenen, 1885, the species is a synonym of *Conomitra danensis* (Cossmann, 1899), family Volutomitridae.

Mitra daphnelloides Tenison-Woods, 1880

Mitra daphnelloides Tenison-Woods, 1880, Proc. Linn. Soc. N.S.W. 4: 7, pl. 2, fig. 3. Muddy Creek, Victoria; Miocene. 6.5 x 3.0mm.

A species of *Mitrithara* Hedley, 1922, family Turridae.

Mitra decussata Dujardin, 1837

Mitra decussata Dujardin, 1837, Mém. Soc. géol. France 2: 301, pl. 20, fig. 13. Faluns de la Touraine, France; Miocene.

A species of *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, 1883, family Turridae.

Mitra delheidi Glibert, 1957

Mitra delheidi Glibert, 1957, Mem. Inst. R. Sci. Nat. Belg. No. 137: 72, pl. 6, fig. 1a only. Hemixem, Argile de Boom, Belgium; Oligocene.

The original proposal of *M. delheidi* by Vincent (1889, Ann. Soc. R. Mal. Belg. 23) is a nomen nudum. The species is a synonym of *Conomitra soellingensis* (Speyer, 1864), family Volutomitridae.

Vexillum desglandi Roualt, 1850

Vexillum desglandi Roualt, 1850, Bull. Soc. géol. France 7: 735.

The species does not belong in the Mitridae.

Mitra dewalquei Briart & Cornet, 1871

Mitra dewalquei Briart & Cornet, 1871, Mem. Acad. R. Sci. Lett. Art. Belg. 36: 72. Mons, Belgium; Paleocene. 21.0 x 7.5mm.

The species belongs in the family Volutomitridae.

Mitra diasticta Cossmann, 1897

Mitra diasticta Cossmann, 1897, Bull. Soc. Sci. nat. L'Ouest 6: 243, pl. 8, figs. 34, 35. Bois Gouet, Loire Inferieure; Eocene. 5.0 x 2.0 x 2.5mm.

The species belongs in the family Volutomitridae.

Mitra distorta Philippi, 1887

Mitra distorta Philippi, 1887, Tert. Quart. Verst. Chiles p. 72, pl. 8, fig. 8. Lebu, Chile; L. Pliocene. 22.0 x 10.0mm.

The species is a member of the family Fasciolariidae.

Mitra dolliata Conrad, 1833

Mitra dolliata Conrad, 1833, Foss. shells Tert. form. N. America 1: 34. Claiborne, Alabama; Eocene. Lectotype ANSP No. 14264.

A species of *Caricella* Conrad, family Volutidae.

Mitra douglasensis Turner, 1938

Mitra douglasensis Turner, 1938, Geol. Soc. Amer. Pap. No. 10: 74, pl. 15, fig. 6. Umpqua River, W. Oregon; Eocene. 12.6 x 7.0mm.

This is a questionable mitrid species which may possibly belong to the family Fasciolariidae.

Mitra dubia Hutton, 1873

Mitra dubia Hutton, 1873, Cat. Tert. Moll. Echin. New Zealand p. 8. Broken River, Chatham I., New Zealand; U. Oligocene.

The species belongs to the family Marginellidae.

Mitra dubia de Gregorio, 1890

Mitra dubia de Gregorio, 1890, Ann. geol. paleont. Palermo 7: 75, pl. 5, figs. 49, 56-60. Claiborne, Alabama; Eocene.

A new combination for *Voluta dubia* H. C. Lea, 1840 = *Lapparia pacilis* (Conrad, 1833), and a homonym of *Mitra dubia* Hutton, 1873.

Mitra dumasi Cossmann, 1897

Mitra dumasi Cossmann, 1897, Bull. Soc. Sci. nat. L'Ouest 6: 237, pl. 9, figs. 4, 5. Bois Gouet, Loire Inferieure; Eocene. 35.0 x 16.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra dumosa Conrad in Wailes, 1854

Mitra dumosa Conrad in Wailes, 1854, Rept. Agric. Geol. Mississippi p. 289, pl. 15, fig. 4. Moody's Branch, Jackson form., Mississippi; Eocene. Holotype ANSP No. 13575.

A species of *Lapparia* Conrad, family Volutidae.

Mitra eburnea Grateloup, 1834

Mitra eburnea Grateloup, 1834, Act. Soc. Linn. Bordeaux 6: 29 (Ref. to Lamarck, 1823, Rec. pl. coq. foss. env. Paris, pl. 2, fig. 9). Dax, Cozordite, France; Miocene.

This is a new combination for *Marginella eburnea* Lamarck, 1803, family Marginellidae.

Pterygia effossa Röding, 1798

Pterygia effossa Röding, 1798, Mus. Bolten. p. 52. Loc.: ?

A synonym of *Eucithara subterranea* (Röding, 1798), family Turridae.

Mitra elegans H. C. Lea, 1840

Mitra elegans H. C. Lea, 1840, Amer. Jour. Sci. Arts 40: 102, pl. 1, fig. 22. Claiborne, Alabama; Eocene. 0.5 x 0.2 inches.

A synonym of *Terebrifusus amoenus* (Conrad, 1833), family Buccinidae.

Mitra enysi Hutton, 1873

Mitra enysi Hutton, 1873, Cat. Tert. Moll. Echin. N.Z., p. 7. Broken River, New Zealand; U. Oligocene. Type NZGS: 19.7 x 8.4 x 12.3mm.

A species of *Waimatea* Finlay, family Volutomitridae.

Pterygia erminea Röding, 1798

Pterygia erminea Röding, 1798, Mus. Bolten., p. 51, Loc.: ?

A synonym of *Marginella faba* (Linnaeus, 1758), family Marginellidae.

Mitra (Volutomitra) exigua von Maltzan, 1884

Mitra (Volutomitra) exigua von Maltzan, 1884, Nachr. Deut. Malak. Gesell., 16: 72. Gorée, Senegambia, W. Africa. Type ZIHU: 6.6 x 2.6 x 3.6mm.

According to Knudsen (1956) who examined the type specimen, the species is similar to *Mitra monodi* Knudsen, 1956. This species is not a mitrid but a member of *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, family Turridae. The specific name is a homonym of *Mitra exigua* C. B. Adams, 1845.

Mitra extensa Koenen, 1890

Mitra extensa Koenen, 1890, Abh. k. preuss. geol. Land. 10: 538, pl. 38, figs. 7a, b, c. Lattorf, Germany; L. Oligocene. 5.4 x 2.1mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Vexillum fenestratum Suter, 1917

Vexillum fenestratum Suter, 1917, N.Z. Geol. Surv. Pal. Bull. No. 5, 28, pl. 4, fig. 8. Pukeuri, near Oamaru, New Zealand; L. Miocene. Type OUM: 8.0 x 3.2mm.

The familial status of the species is uncertain, but it belongs to the genus *Egestas* Finlay, 1927, which has affinities with the Fasciolariidae.

Mitra flaccida Yokoyama, 1928

Mitra flaccida Yokoyama, 1928, J. Fac. Sci. Imp. Univ. Tokyo 2: 344, pl. 67, fig. 1. Koūnji and Uwāé, Hyuga Pref., Japan; Pliocene.

According to Hatai & Nisiyama (1952), this species belongs in the family Marginellidae.

Mitra flemingii Lea, 1833

Mitra flemingii Lea, 1833, Contrib. Geology p. 170, pl. 6, fig. 177. Claiborne, Alabama; Eocene.

A synonym of *Caricella bolaris* (Conrad, 1833), family Volutidae.

Vexillum fractum Marwick, 1926

Vexillum fractum Marwick, 1926, Trans. Proc. N.Z. Inst. 56: 321, pl. 73, fig. 12. Mimi Stream, New Zealand; U. Miocene. Type NZGS: 6.0 x 3.0mm.

A very juvenile specimen of Volutomitridae.

Pterygia fulgura Röding, 1798

Pterygia fulgura Röding, 1798, Mus. Bolten, p. 52. Loc.: ?

A synonym of *Fulgoraria rupestris* (Gmelin, 1791), family Volutidae.

Mitra columbellaria var. **fulva** Brusina, 1870

Mitra columbellaria var. *fulva* Brusina, 1870, Rad. Yugosl. Akad. 11: 58. Sottomarina and Brondolo, Gulf of Venice.

A synonym of *Mitrolumna olivoidea* (Cantraine, 1835), family Turridae, and a homonym of *Mitra fulva* Swainson, 1829.

Mitra fusellina Lamarck, 1803

Mitra fusellina Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 59. Grignon, Paris Basin; Eocene. 4-5mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra fusoides Lea, 1833

Mitra fusoides Lea, 1833, Contrib. Geology, p. 169, pl. 6, fig. 176. Claiborne, Alabama; Eocene. Type ANSP: No. 5868: 10.5 x 5.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Turricula genotiaeformis Cossmann, 1896

Turricula genotiaeformis Cossmann, 1896, Bull. Soc. Sci. nat. L'Ouest 6 (4): 245, pl. 9, figs. 27, 28. La Close, Loire Inferieure, France; Eocene. 19.0 x 7.5 x 11.0mm.

A species of *Proximitra* Finlay, 1927, family Volutomitridae.

Mitra georgiana Conrad, 1850

Mitra georgiana Conrad, 1850, J. Acad. Nat. Sci. Philad. ser. 2, 2: 39, pl. 1, fig. 4. Georgia, S.E. United States; Eocene.

A synonym of *Lapparia pacilis*, (Conrad, 1833), family Volutidae.

Mitra gervillii Payraudeau, 1826

Mitra gervillii Payraudeau, 1826, Cat. Anell. Moll. Corse p. 165, pl. 8, fig. 21, Ventilegne and Santa Manza, Corsica.

A synonym of *Mitrella scripta* (Linnaeus, 1767), family Columbellidae.

Pterygia glabella Röding, 1798

Pterygia glabella Röding, 1798, Mus. Bolten. p. 51. Loc.: ?

A new combination for *Marginella glabella* (Linnaeus, 1758), family Marginellidae.

Mitra godini Cossmann, 1891

Mitra godini Cossmann, 1891, Ann. Soc. R. Malac. Belg. 26: 71, pl. 3, fig. 17. Parnes, Paris Basin; Eocene. 4-5mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra gracilis H. C. Lea, 1840

Mitra gracilis H. C. Lea, 1840, Amer. J. Sci. Arts 40: 101, pl. 1, fig. 20. Claiborne, Alabama; Eocene. 6.0 x 2.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra grammatica Dall, 1927

Mitra grammatica Dall, 1927, Proc. U.S. Nat. Mus. 70 (18): 50. Off Georgia, S.E. United States. Type USNM No. 333456.

The species should be referred to the subfamily Mitromorphinae, family Turridae.

Mitra graniformis Lamarck, 1803

Mitra graniformis Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 59. Parnes, near Magny, Paris Basin; Eocene. 4-5mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra granulifera Lamarck, 1811

Mitra granulifera Lamarck, 1811, Ann. Mus. d'Hist. Nat. Paris 17: 221. L'Ocean des grandes Indes = error! Types MHNG No. 1102/83.

The species is very similar to the Caribbean *Morula nodulosa* (C. B. Adams, 1845), family Muricidae.

Mitra groenlandica Beck in Möller, 1842

Mitra groenlandica Beck in Möller, 1842, Naturh. Tidsskrif. 4: 88. Greenland. Types BMNH No. 43.6.30.185-189.

This is the type species of *Volutomitra* H. & A. Adams, 1853, family Volutomitridae.

Mitra haleanus Whitfield, 1865

Mitra haleanus Whitfield, 1865, Amer. J. Conch. 1 (3): 263, pl. 27, fig. 6. Vicksburg, Mississippi; Oligocene.

A species of *Athleta* Conrad, 1853, family Volutidae.

Vexillum halli Rouault, 1850

Vexillum halli Rouault, 1850, Bull. Soc. géol. France 7: 735.

The species is non mitrid.

Mitra hammakeri Harris, 1894

Mitra hammakeri Harris, 1894, Ann. Rept. Geol. Surv. Arkansas 2: 163, pl. 6, fig. 4. Lee Hammaker's well, Jackson form., Arkansas; Eocene. Type USNM No. 135132: 11.0 x 5.0mm.

This is the smooth form or subspecies of *Conomitra fusoides* (Lea, 1833), family Volutomitridae.

Mitra haycocki Dall & Bartsch, 1911

Mitra haycocki Dall & Bartsch, 1911, Proc. U.S. Nat. Mus. 40: 277, pl. 35, fig. 7. Bermuda, Caribbean. Type USNM No. 221617: 4.5 x 2.2 x 2.6mm.

The species should be referred to the subfamily Mitromorphinae, family Turridae.

Vulpecula (Pusia) hedleyi Murdoch, 1905

Vulpecula (Pusia) hedleyi Murdoch, 1905, Trans. Proc. N.Z. Inst. 37: 228, pl. 8, fig. 21. Whangarei Heads, New Zealand. Type DM No. M-1737: 5.3 x 2.7 x 3.6mm.

A species of *Peculator* Iredale, 1924, family Volutomitridae.

Mitra (Pleioptygma) heilprini Cossmann, 1899

Mitra (Pleioptygma) heilprini Cossmann, 1899, Rev. Crit. Paléoz. 3: 144. Caloosahatchie, Florida; Pliocene.

Proposed as a substitute name for *Mitra lineolata* Heilprin, 1887 (non Bellardi, 1887), the species is either a form or subspecies of *Pleioptygma carolinensis* (Conrad, 1840), family Volutidae.

Turridula hemiconoides Cossmann, 1897

Turridula hemiconoides Cossmann, 1897, Bull. Soc. Sci. nat. L'Outre 8 (1): 45, pl. 2, figs. 15, 16. Coislin, France; Eocene. 12.5 x 6.0mm.

A juvenile species of *Conomitra* Conrad, family Volutomitridae.

Mitra hondana Yokoyama, 1922

(Fig. 3)

Mitra hondana Yokoyama, 1922, J. Coll. Sci. Imp. Univ. Tokyo 44 (1), 50, pl. 2, fig. 8. Shito, U. Musashino form., Japan; Plio-Pleistocene. 10.0 x 4.2mm.

A species of *Microvoluta* Angas, family Volutomitridae.

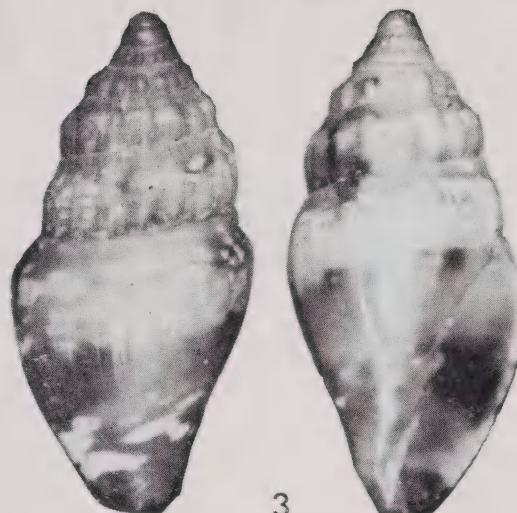


Fig. 3. *Microvoluta hondana* (Yokoyama). Jogashima, Sagami Bay, Honshu, Japan, 80-90 metres. Length 8.4mm.

Mitra hordeola Deshayes, 1865

Mitra hordeola Deshayes, 1865, Desc. Anim. sans vert. Bass. Paris 3: 576, pl. 103, figs. 17-19. Laon, Cuise, Mercin, Paris Basin; Eocene. 9.0 x 3.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Turridula hottentota Thiele, 1925

Turridula hottentota Thiele, 1925, Wiss. Erg. Deut. Tief. Exp. "Valdivia" 17: 186, pl. 32, fig. 24. Agulhas Bank, Sth. Africa, 155 metres. 7.5 x 3.1mm.

A species of *Microvoluta* Angas, family Volutomitridae.

Mitra hualpensis Philippi, 1887

Mitra hualpensis Philippi, 1887, Tert. Quart. Verst. Chiles p. 71, pl. 8, fig. 6. Hualpen, Chile; L. Pliocene. 30.0 x 14.0mm.

The species is not a mitrid and is referable to the superfamily Buccinacea.

Mitra humboldti Lea, 1833

Mitra humboldti Lea, 1833, Contrib. Geology, p. 170, pl. 6, fig. 178. Claiborne, Alabama; Eocene.

A synonym of *Caricella bolaris* (Conrad, 1833), family Volutidae.

Mitra inaspecta Deshayes, 1865

Mitra inaspecta, Deshayes, 1865, Desc. Anim. sans vert. Bass. Paris 3: 574, pl. 103, figs. 14-16. Auvers, Paris Basin; Eocene. 8.0 x 4.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra inconspicua Hutton, 1885

Mitra inconspicua Hutton, 1885, Trans. Proc. N.Z. Inst. 17: 326, Mt. Harris and Waihao greensands, New Zealand; U. Eocene. Type CM: 17.0 x 7.5mm.

A species of *Waimatea* Finlay, family Volutomitridae.

Mitra inornata Beyrich, 1854

Mitra inornata Beyrich, 1854, Zeit. deut. geol. Gesell. 6: 413, pl. 9, figs. 2a, b. Westeregeln, Magdeburg, Germany; L. Oligocene. 4.2 x 2.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra insignis A. Adams, 1853

Mitra insignis A. Adams, 1853, Proc. Zool. Soc. London pt. 19: 132. Rains I., Pacific. Type BMNH No. 1966465: 16.8 x 6.4 x 8.7mm.

The type is a juvenile specimen of *Pyrene ligula* (Duclos, 1835), family Columbellidae.

Strigatella isabellae Gardner, 1937

Strigatella isabellae Gardner, 1937, U.S. Geol. Surv. Prof. Pap. No. 142F: 419.

This is a new combination for *Caricella isabellae* Maury, 1910, which is a species of *Enaeta* H. & A. Adams, 1853, family Volutidae.

Mitra jervisensis Laseron, 1951

Mitra jervisensis Laseron, 1951, Rec. Aust. Mus. 22 (4): 341, fig. 4. Jervis Bay, N.S.W., Australia, 15 fathoms. Type AMS: 11.0 x 4.2 x 5.0mm.

According to Garrard (1969), the species is a synonym of *Microvoluta roiana* Iredale, 1924, family Volutomitridae.

Mitra kobayashii Yokoyama, 1927

Mitra kobayashii Yokoyama, 1927, J. Fac. Sci. Imp. Univ. Tokyo 2 (4): 173, pl. 47, fig. 5. Kami-Tsuye, Kaga, Japan; Pliocene. 26.0 x 12.0mm.

According to Hatai & Nisiyama (1952), the species belongs to the family Cancellariidae.

Vexillum labechei Roualt, 1850

Vexillum labechei Roualt, 1850, Bull. Soc. geol. France 7: 734.

The species is not a mitrid.

Mitra labiata Deshayes, 1865

Mitra labiata Deshayes, 1865, Desc. Anim. sans vert. Bass. Paris 3: 571. Paris Basin; Eocene. A synonym of *Mitreola raricosta* (Lamarck, 1803), family Volutidae.

Mitra labiata Grzybowski, 1899

Mitra labiata Grzybowski, 1899, Neu. Jahrb. Mineral. 12: 649, pl. 19, fig. 10. Payta, Talara form., N. Peru; Miocene. 15.0mm.

The species is not a mitrid and may probably belong to the Columbellidae. It is a homonym of *Mitra labiata* Deshayes, 1865.

Mitra labratula Lamarck, 1803

Mitra labratula Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 58; *Mitra labratella* Lamarck, Tabl. Encycl. Méth. p. 1, pl. 392, figs. 3a, b. Grignon, Paris Basin; Eocene. 20.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra labrosa Deshayes, 1835

Mitra labrosa Deshayes, 1835, Desc. coq. foss. env. Bass. Paris 2: 673, pl. 88, figs. 20, 21 (as *M. lebrosa* in text of 1835 and *M. labrosa* in plate expl. of 1837). Mouchy, Paris Basin; Eocene. 26.0mm.

The species is probably conspecific with *Mitreola monodonta* (Lamarck, 1803), family Volutidae.

Mitra lachryma Reeve, 1845

Mitra lachryma Reeve, 1845, Conch. Icon. pl. 32, sp. 258. Loc.: ?

A synonym of *Anarithma metula* (Hinds, 1843), family Columbellidae.

Mitra lajoyi Deshayes, 1835

Mitra lajoyi Deshayes, 1835, Desc. coq. foss. env. Bass. Paris 2: 678, pl. 89, figs. 5, 6. Assy, Valmondois, Paris Basin; Eocene. 50.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra lamberti Fleming, 1828

Mitra lamberti Fleming, 1828, Hist. Brit. Anim. p. 333 (ref. to Sowerby, 1816, Min. Conch. pl. 129). Crag Marl, England; Pliocene.

A synonym of *Voluta lamberti* J. de C. Sowerby, 1816, family Volutidae.

Turricula leda Whitfield, 1892

Turricula leda Whitfield, 1892, Mon. U.S. Geol. Surv. 18: 93, pl. 11, fig. 7. U. Cretaceous.

The species is not a mitrid and may be referable to *Exilia* Conrad, 1860 family Fasciolariidae.

Mitra lennieri Cossmann & Pissario, 1901

Mitra lennieri Cossmann & Pissario, 1901, Bull. Soc. géol. Normandie 20: 88, pl. 10, fig. 19. Fresville, Cotentin, France; Eocene. 10.0 x 7.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra leontocroma Brusina, 1866

Mitra leontocroma Brusina, 1866, Verh. zool.-bot. Gesell. Wien Suppl. 16: 34. Dalmatia, Adriatic. 7.0 x 3.0mm.

A synonym of *Mitrolunna olivoidea* (Cantraine, 1835), family Turridae.

Mitra (Conomitra) fusoides lepa de Gregorio, 1890

Mitra (Conomitra) fusoides lepa de Gregorio, 1890, Ann. Géol. Pal. Palermo 7: 72, pl. 5, figs. 35, 36. Gosport, Alabama; Eocene.

A synonym of *Conomitra fusoides* (Lea, 1833), family Volutomitridae.

Mitra ligata Tate, 1889

Mitra ligata Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 139, pl. 5, fig. 4. Lower beds at Muddy Creek, Victoria, Australia; M. Miocene. 7.0 x 3.0 x 4.0mm.

A synonym of *Microvoluta pentaploca* Finlay, 1927, family Volutomitridae, and a homonym of *Mitra ligata* A. Adams, 1853.

Vexillum ligatum Suter, 1917

Vexillum ligatum Suter, 1917, NZ. Geol. Surv. Pal. Bull. No. 5: 28, pl. 4, fig. 9. Waitaki River, Wharekuri, Waitaki Valley, New Zealand; U. Oligocene. Type OUM 9.0 x 4.0mm.

A synonym of *Waimatea enysi* (Hutton, 1873), family Volutomitridae.

Imbricaria limburgensis Binkhorst, 1861

Imbricaria limburgensis Binkhorst, 1861, Mon. Gast. Craig Limbourg, p. 16, pl. 2, figs. 8a, b (fig. c is a different species). Limbourg; U. Cretaceous. 53.0 x 22.0mm.

The species is not an *Imbricaria* nor a mitrid and probably belongs in the family Volutidae.

Turricula lincta Hutton, 1885

Turricula lincta Hutton, 1885, Trans. Proc. N.Z. Inst. 17: 326. Petane, New Zealand; L. Pleistocene; *Vexillum linctum* Suter, 1915, N.Z. Geol. Surv. Pal. Bull. No. 3: 21, pl. 8, fig. 8. Type CM: No. M-3386: 4.7 x 2.5 x 2.4mm.

The type is a juvenile specimen of *Microvoluta marginata* (Hutton, 1885), family Volutomitridae.

Mitra lineata Schumacher, 1817

Mitra lineata Schumacher, 1817, Ess. nouv. Syst. p. 239 (Ref. Chemnitz, 1780, 4; pl. 158 = error for pl. 148, figs. 1372, 1373. Loc.: ?

Schumacher's (1817) *Mitra lincata* is a composite species: the cited figure 1372 (and 1371) represents the terrestrial Jamaican snail *Achatina albolineata* Lamarck, 1822, which is probably synonymous with *Varicella leucoxonias* (Gmelin, 1791), family Oleacinidae. The second cited figure 1373 is the mitrid species *Vexillum (Costellaria) sanguisugum* (Linnaeus, 1758). *Tiara lineata* Broderip, 1836, is not a secondary homonym of *Mitra lineata* Schumacher, and the currently used *Mitra erythrogramma* Tomlin, 1931, for a West American *Subcancilla* species, will become a synonym of *Subcancilla lineata* (Broderip, 1836).

Mitra lineolata Heilprin, 1887

Mitra lineolata Heilprin, 1887, Trans. Wag. Free Inst. Sci. Philad. 1: 79, 133, pl. 2, figs. 9, 9a and pl. 16a, fig. 74. Caloosahatchie, Florida; Pliocene. Type USNM.

A synonym of *Pleioptygma heilprini* Cossmann, 1899, family Volutidae, and a homonym of *Mitra lineolata* Bellardi, 1887.

Mitra longissima Giebel, 1864

Mitra longissima Giebel, 1864, Abh. Nat. Gesell. Halle 8: 16, pl. 1, fig. 12. Lattorf, Germany; L. Oligocene.

A species of the genus *Scaphella* Swainson, 1832, subgenus *Aurinia* H. & A. Adams, 1853, family Volutidae.

Vexillum lornense Marwick, 1926

Vexillum lornense Marwick, 1926, Trans. Proc. N.Z. Inst. 56: 314, pl. 72, fig. 13. Waiarekan Tuffs, Lorne, N. Otago, New Zealand; U. Eocene. Type NZGS: 6.5 x 3.0mm.

A species of *Waimatea* Finlay Volutomitridae.

Mitra lyraeformis Swainson, 1821

Mitra lyraeformis Swainson, 1821, Zool. Illust., ser. 1, 1: pl. 54, 2 figs. Loc.: ?

A species of the genus *Lyria* Gray, 1847, family Volutidae.

Mitra lyrata Sasso, 1827

Mitra lyrata Sasso, 1827, Giorn. Lig. Sci. Genova 1: 481 (ref. to Brocchi, 1814, pl. 3, fig. 8). Basin of Albenga, Italy; Pliocene.

A synonym of *Cancellaria varicosa* (Brocchi, 1814) and a homonym of *Mitra lyrata* Lamarck, 1822.

Pterygia magellanica Röding, 1798

Pterygia magellanica Röding, 1798, Mus. Bolten. p. 52. Loc.: ?

A synonym of *Adelomelon ancilla* (Lightfoot, 1786), family Volutidae.

Mitra marginata Lamarck, 1803

Mitra marginata Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 58. Grignon, Paris Basin; Eocene. 12.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Thala marginata Tenison-Woods, 1877

Thala marginata Tenison-Woods, 1877, Proc. R. Soc. Tasmania p. 108. Table Cape, Tasmania; Miocene.

A synonym of *Rugobela columbelloides* (Tenison-Woods, 1877), family Turridae.

Turricula marginata Hutton, 1885

Turricula marginata Hutton, 1885, Trans. Proc. N.Z. Inst. 17: 315, pl. 18, fig. 4. Wanganui, New Zealand; U. Pleistocene. Type CM No. M-3149: 6.1 x 2.8 x 3.5mm.

A species of *Microvoluta* Angas, family Volutomitridae.

Mesorhytis meekiana Dall, 1889

Mesorhytis meekiana Dall, 1889, Bull. Mus. Comp. Zool. Harvard 18: 172, pl. 36, fig. 7. Cuba, 250-400 fathoms. Type USNM: 15.5 x 5.0 x 9.0mm.

A juvenile specimen of Fasciolariidae.

Mitra michaudi Michelotti, 1847

Mitra michaudi Michelotti, 1847, Nat. Verh. Holl. Maat. Haarlem 3: 313, pl. 13, figs. 5, 5¹, 5². Turin, Italy; Miocene. 12.0mm.

A species of *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, family Turridae.

Mitra minima Seguenza, 1880

Mitra minima Seguenza, 1880, Atti R. Acc. Linc. Roma ser. 3, 6: 101, pl. 11, fig. 4. Benestare, Calabria, Italy; Miocene. 5.5 x 2.6mm.

A synonym of *Microvoluta cognatella* (Toldo, 1889), family Volutomitridae, and a homonym of *Mitra minima* Lea, 1833.

Turricula minima Vredenburg, 1823

Turricula minima Vredenburg, 1923, Rec. Geol. Surv. India 54 (3): 275, pl. 16, figs. 7a, b. Thanga, Burma; Miocene. C. 7.3mm.

The species is referable to the subfamily Mangeliinae, family Turridae.

Mitra miranda E. A. Smith, 1891

Mitra miranda E. A. Smith, 1891, Proc. Zool. Soc. London p. 440, pl. 34, fig. 12. Challenger St. 164B, "off Sydney, Australia, 410 fathoms" = error; probably Atlantic. Types in BMNH No. 1889, 10.12.17-24.

A synonym of *Microvolvula intermedia* (Dall, 1890), family Volutomitridae, from the West Indies.

Mitra mitraformis Sasso, 1827

Mitra mitraformis Sasso, 1827, Giorn. Lig. Sci. Genova 1: 481 (Ref. Brocchi, 1814, pl. 15, fig. 13). Basin of Albenga, Italy; Pliocene.

The species is not a mitrid.

Mitra mixta Lamarck, 1803

Mitra mixta Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 59. Grignon, Paris Basin; Eocene. 20.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra mokattamensis Oppenheim, 1906

Mitra mokattamensis Oppenheim, 1906, Palaeontographica 30: 325, pl. 26, figs. 6a, b. U. Mokattam beds, Egypt; Eocene. 44.0 x 13.0mm.

The species has a resemblance to *Pleioptygma* Conrad and *Aurinia* H. & A. Adams, family Volutidae.

Turricula (Mesorhytis) monilifera Pethö, 1906

Turricula (Mesorhytis) monilifera Pethö, Palaeontographica 52: 179, pl. 11, fig. 22 (= ? *Turricula monilifera* Pethö, 1896, M. kir. Foldt. Int. targ. p. 32). Peterwardein, Hungary; U. Cretaceous.

The species may be referable to *Paleopsephaea* Wade, 1926, family Fasciolariidae.

Mitra monodi Knudsen, 1956

Mitra monodi Knudsen, 1956, Bull. Inst. Franc. Afric. Noire 18A: 519, pl. 1, fig. 1. Gorée Bay, Senegal, West Africa, 15 metres. 5.9 x 2.8 x 2.7mm.

The species belongs to *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, family Turridae.

Mitra monodonta Lamarck, 1803

Mitra monodonta Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 58. Grignon, Paris Basin; Eocene. 16.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra mooreana Gabb, 1860

Mitra mooreana Gabb, 1860, J. Acad. Nat. Sci. Philad. ser. 2, 4: 383, pl. 67, fig. 24. Wheelock and Caldwell Counties, Texas; Eocene. Type ANSP No. 13273: 27.0mm.

A species of *Lapparia* Conrad, family Volutidae.

Mitra mortenseni Odhner, 1924

Mitra mortenseni Odhner, 1924, Vid. Med. Dansk. nat. For. 77: 34, pl. 1, fig. 24. Nth. Cape, N. Island, New Zealand. Type ZMUC: 14.4 x 7.3mm.

A synonym of *Waimatea obscura* (Hutton, 1873), family Volutomitridae.

Mitra (Terebrifusus) multiplicata de Gregorio, 1890

Mitra (Terebrifusus) multiplicata de Gregorio, 1890, Ann. Geol. Pal. Palermo 7: 77, pl. 5, fig. 65. Claiborne, Alabama; Eocene.

A new combination for *Terebrifusus multiplicatus* (Lea, 1841), family Buccinidae.

Mitra murchisoni Müller, 1851

Mitra murchisoni Müller, 1851, Mon. Petref. Aachner Kreidef. 2: 23, pl. 3, figs. 23a, b. Aachen, Germany; U. Cretaceous.

The species is not a mitrid and a more appropriate placement is in the genus *Longoconcha* Stephenson, 1941, family Volutidae.

Mitra mutica Lamarck, 1803

Mitra mutica Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 60. Grignon, Paris Basin; Eocene. 25.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra namnetica Cossmann, 1897

Mitra namnetica Cossmann, 1897, Bull. Soc. Sci. nat. L'Ouest 6: 242, pl. 8, figs. 30, 31. Bois-Gouet, Loire Inferieure, France; Eocene. 5.25 x 2.5 x 3.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra nana Müller, 1851

Mitra nana Müller, 1851, Mon. Petref. Aachner Kreidef. 2: 23, pl. 3, figs. 24a, b. Greensand of Vaele, Aachen, Germany; U. Cretaceous.

The proper placement of this species appears to be in the genus *Paleopsephaea* Wade, 1926, family Fasciolariidae. The specific name is a homonym of *Mitra nanus* Reeve, 1844.

Pterygia nebulosa Röding, 1798

Pterygia nebulosa Röding, 1798, Mus. Bolten, p. 51. Loc.: ?

This is an earlier name for *Voluta picta* Dillwyn, 1817, and *Marginella nubeculata* Lamarck, 1822, family Marginellidae.

Mitra nice Nardo, 1847

Mitra nice Nardo, 1847, Sin. mod. spec. Lago Veneto p. 47. Lago Veneto, Italy.

The species is not a mitrid.

Mitra nitida Pictet & Campiche, 1864

Mitra nitida Pictet & Campiche, 1864, Mater. Paleont. Suisse 3: 684. Gosau, Austria; U. Cretaceous.

This is a new combination for *Fasciolaria nitida* Zekeli, 1852, and a homonym of *Mitra nitida* A. Adams, 1853.

Mitra nodosa Borson, 1820

Mitra nodosa Borson, 1820, Mem. R. Acc. Sci. Torino 25: 208, pl. 1, fig. 9. Loc.: ?

A juvenile specimen of *Strombus bonellii* Brongniart, 1823, family Strombidae.

Strigatella (Mitreola) nodulosa Doncieux, 1908

Strigatella (Mitreola) nodulosa Doncieux, 1908, Ann. Univ. Lyon 22: 60, pl. 3, figs. 7a, b. Fabrezan, France; U. Paleocene. 9.5 x 4.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra obliquata Deshayes, 1835

Mitra obliquata Deshayes, 1835, Desc. coq. foss. env. Bass. Paris 2: 677, pl. 89, fig. 3, & pl. 90, figs. 5, 6. Parnes, Mouchy, Paris Basin; Eocene.

A species of *Mitreola* Swainson, family Volutidae, and a homonym of *Mitra obliquata* Lamarck, 1811.

Mitra obscura Hutton, 1873

Mitra obscura Hutton, 1873, Cat. Mar. Moll. Ech. N.Z. p. 19. Bay of Islands, New Zealand. Type DM: 16.0 x 8.0 x 9.0mm.

A species of *Waimatea* Finlay, family Volutomitridae.

Mesorhytis obscura Wade, 1926

Mesorhytis obscura Wade, 1926, U.S. Geol. Surv. Prof. Pap. 137: 132, pl. 46, figs. 2, 6. Ripley form., Tennessee; U. Cretaceous.

A species of *Graphidula* Stephenson, 1941, family Fasciolariidae.

Mitra obsoleta Philippi, 1836

Mitra obsoleta Philippi, 1836, Enum. Moll. Siciliae 1: 230. Catania, Sicily, Italy.

A synonym of *Mitrolumna olivoidea* (Cantraine, 1835) and a synonym of *Mitra obsoleta* Grateloup, 1834.

Mitra olivoidea Cantraine, 1835

Mitra olivoidea Cantraine, 1835, Bull. Acad. R. Sci. nat. Bruxelles 2: 391. Mediterranean. Type IRSN: 5.4 x 2.7mm.

This is the type species of *Mitrolumna* Bucquoy, Dautzenberg & Döllfus, 1883, family Turridae.

Mitra olivula Baudon, 1853

Mitra olivula Baudon, 1853, J. Conchyl. 3: 331, pl. 9, fig. 13. Sant Félix, Oise, France; Eocene. 18.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra orcutti Dall, 1920

Mitra orcutti Dall, 1920, *Nautilus* 33: 103. La Jolla, near San Diego, California. Type USNM No. 334567: 6.0 x 2.5 x 3.2mm.

A synonym of *Mitromorpha gracilior* (Tryon, 1884), family Turridae.

Mitra othona Tenison-Woods, 1880

Mitra othona Tenison-Woods, 1880, *Proc. Linn. Soc. N.S.W.* 4: 8, pl. 2, fig. 4. Muddy Creek, Victoria, Australia; Miocene. 10.0 x 4.5mm.

A species of *Waimatea* Finlay, family Volutomitridae.

Mitra pactilis Conrad, 1833

Mitra pactilis Conrad, 1833, *Foss. shells Tert. form. N. America* 1: 46; 1835, pl. 16, fig. 21. Claiborne Bluff, left bank of Alabama River, Alabama; Eocene. Type ANSP No. 13576.

A species of *Lapparia* Conrad, family Volutidae.

Mitra paeteli Dohrn, 1860

Mitra paeteli Dohrn, 1860, *Malakozool. Blätter* 7: 125. Africa meridionalis ? 18.0 x 10.0 x 12.0mm. Type lost.

According to the description, the species has an inflected labial lip with 9 denticles and a calloused columella with 4 folds. The species appears to be a *Mitrella* Risso, 1826, family Columbellidae.

Vexillum pailoloanum J. Cate, 1963

Vexillum pailoloanum J. Cate, 1963, *Veliger* 6 (1): 29, pl. 6, figs. 11-13. Pailolo Channel between Maui and Malokai, Hawaiian Islands, 256-283 fathoms. Type USNM No. 173008: 18.0 x 7.0 x 10.0mm.

A species of *Volutomitra* H. & A. Adams, 1853, family Volutomitridae.

Mitra panaulax Cossmann 1901

Mitra panaulax Cossmann, 1901, *Ess. paléoc. comp.* 4: 25, pl. 10, figs. 16, 17. Loire-Inferieure: Miocene.

The species was first described on p. 25 as a *Mitra* with a reference to figures. On page 255 the species was diagnosed as *Mitromorpha panaulax*. The taxon is a *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, family Turridae.

Mitra (Mitromorpha) paraptycha Böttger, 1906

Mitra (Mitromorpha) paraptycha Böttger, 1906, *Verh. Mitt. Ver. Nat. Hermannstadt* 54: 13. Kostej, Banat, Transsylvania; Miocene. Type SMF: 10.5 x 4.0 x 6.0mm.

A species of *Mitromorpha* Carpenter, family Turridae.

Mitra parisiensis Deshayes, 1832

Mitra parisiensis Deshayes, 1832, *Encycl. Méth. Hist. Nat. ed. 2*, 2: 470. Parnes, Paris Basin; Eocene. 47.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Vexillum parki Allan, 1926

Vexillum parki Allan, 1926, *Trans. Proc. N.Z. Inst.* 56: 341, pl. 77, fig. 2. McCullough's Bridge, Waihao, New Zealand; U. Eocene. 15.0 x 6.0mm. Holotype lost, syntypes in AIM.

A species of *Waimatea* Finlay, family Volutomitridae.

Mitra parkinsoni Lea, 1833

Mitra parkinsoni Lea, 1833, *Contrib. Geology* p. 175, pl. 6, fig. 184. Claiborne, Alabama; Eocene.

A synonym of *Turbinella pyruloides* Conrad, 1832, family Volutidae.

Mitra parva J. de C. Sowerby, 1823

Mitra parva J. de C. Sowerby, 1823, *Min. Conch.* 5: 37, pl. 430, fig. 1. Barton Cliffs, England; Eocene.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra pauciplicata Yokoyama, 1928

Mitra pauciplicata Yokoyama, 1928, *J. Fac. Sci. Imp. Univ. Tokyo ser. 2*, 2: 334, pl. 67, fig. 2. Kounji, Japan; Pliocene.

According to Hatai & Nisiyama (1952), the species belongs to the genus *Phenacoptygma* Dall, family Volutidae.

Pterygia peregrina Röding, 1798*Pterygia peregrina* Röding, 1798, Mus. Bolten. p. 52. Loc.: ?A synonym of *Adelomelon ancilla* (Lightfoot, 1786), family Volutidae.**Mitra pergracilis** Harris, 1899*Mitra pergracilis* Harris, 1899, Bull. Americ. Paleont. 3 (11): 39, pl. 4, fig. 10 (in error *M. peregrilis* on plate expl.). Gregg's Landing, Alabama; L. Eocene.This is a new combination for *Fasciolaria pergracilis* Aldrich, 1886.**Mitra perlonga** Martin, 1884*Mitra perlonga* Martin, 1884, Samml. geol. Reichs-Mus. Leiden 3: 93, pl. 5, fig. 93. Ngembak, Java, Indonesia; Pliocene.

The species should be referred to the subfamily Mitromorphinae, family Turridae.

Mitra perminuta Sandberger, 1863*Mitra perminuta* Sandberger, 1863, Conchyl. Mainz. Tert. p. 252, pl. 19, fig. 4. Weinheim, Waldböckelheim, Germany; M. Oligocene.A species of *Conomitra* Conrad, family Volutomitridae.**Pterygia persicula** Röding, 1798*Pterygia persicula* Röding, 1798, Mus. Bolten. p. 52. Loc.: ?This is the same species as *Marginella persicula* (Linnaeus, 1758), family Marginellidae.**Mitra (Strigatella) perturbatrix** Maury, 1917*Mitra (Strigatella) perturbatrix* Maury, 1917, Bull. Americ. Paleont. 5: 76, pl. 14, figs. 1, 2. Rio Gurabo, Santo Domingo, Dominican Republic; Miocene. 20.0 x 8.5mm.A species of *Enaeta* H. & A. Adams, 1853, family Volutidae.**Strigatella peruviana** Olsson, 1931*Strigatella peruviana* Olsson, 1931, Bull. Americ. Paleont. 17: 209, pl. 20, figs. 4, 6. Near Puercotilla, Chira form., N. Peru; L. Oligocene. 21.0 x 12.0 x 15.0mm.A species of *Mitreola* Swainson, family Volutidae.**Mitra (Mitreola) pezanti** Cossmann, 1906*Mitra (Mitreola) pezanti* Cossmann, 1906, Ann. Soc. R. Malac. Belg. 41: 267, pl. 5, fig. 202-22. Boury, Paris Basin; Eocene. 30.0 x 12.0mm.A species of *Mitreola* Swainson, family Volutidae.**Mitra pica** Reeve, 1845*Mitra pica* Reeve, 1845, Conch. Icon. pl. 31, sp. 247. Loc.: ? Types in BMNH No. 1967838.A synonym of *Waimatea obscura* (Hutton, 1873), family Volutomitridae, and a homonym of *Mitra pica* Deshayes in Deshayes & Edwards, 1844.**Mitra pirula** Yokoyama, 1922*Mitra pirula* Yokoyama, 1922, J. Coll. Sci. Imp. Univ. Tokyo 44 (1): 51, pl. 2, fig. 9. Shito, U. Musashino form., Japan; Pleistocene.A juvenile specimen of *Microvoluta hondana* (Yokoyama, 1922), family Volutomitridae.**Mitra piruliformis** Müller, 1851*Mitra piruliformis* Müller, 1851, Mon. Petref. Aachner Kreidef. 2: 23, pl. 3, figs. 25a, b. Lusberg and Vaeles, Aachen, Germany; U. Cretaceous.This is the type species of *Ficulomorpha* Holzapfel, 1888, family Volutidae.**Mitra (Thala) pleurotomoides** E. A. Smith, 1890*Mitra (Thala) pleurotomoides* E. A. Smith, 1890, Proc. Zool. Soc. London p. 266, pl. 23, fig. 10. St. Helena, Atlantic. 5.0 x 2.0mm.

The species belongs in the subfamily Mitromorphinae, family Turridae.

Vexillum plicatellum Marshall & Murdoch, 1923*Vexillum plicatellum* Marshall & Murdoch, 1923, Trans. Proc. N.Z. Inst. 54: 123, pl. 12, fig. 3. McCullough's Bridge, Waihao River, New Zealand; U. Eocene. 7.5 x 4.0mm.A species of *Conomitra* Conrad, family Volutomitridae.

Mitra plicifera Yokoyama, 1920

Mitra plicifera Yokoyama, 1920, J. Coll. Sci. Imp. Univ. Tokyo 39: 48, pl. 2, figs. 16a, b. Koshiba, L. Musashino, Miura Peninsula, Japan; L. Pliocene.

According to Kuroda & Habe (1950), the species is a synonym of *Benthovoluta hilgendorfi* (von Martens, 1897), family Volutidae. It is also a homonym of *Mitra plicifera* S. V. Wood, 1848.

Austromitra plicifera Marwick, 1928

Austromitra plicifera Marwick, 1928, Trans. Proc. N.Z. Inst. 58: 485, fig. 129. Whenuataru Peninsula, Pitt I., Chatham I., New Zealand; L. Pliocene. Type NZGS: 10.0 x 5.5mm.

A species of *Parvimitra* Finlay, 1930, family Volutomitridae.

Mitra (Volutomitra) porcellana Melvill & Standen, 1912

Mitra (Volutomitra) porcellana Melvill & Standen, 1912, Trans. R. Soc. Edinburgh 48: 355, fig. 21. Scotia Bay, S. Orkneys, 9-10 fathoms; Burdwood Bank, 56 fathoms. Type c. 14.0mm.

The species has features of *Paradmete* Streb, 1908, family Volutomitridae, and of Subantarctic Marginellidae.

Imbricaria porphyria Verco, 1896

Imbricaria porphyria Verco, 1896, Trans. R. Soc. Sth. Aust. 20: 227, pl. 8, figs. 5, 5a. Backstairs Passage, Investigator Str., Sth. Australia, 15-20 fathoms.

A species of *Peculator* Iredale, 1924, family Volutomitridae.

Mitra porrecta F. E. Edwards, 1856

Mitra porrecta F. E. Edwards, 1856, Mon. Palaeont. Soc. England 3 (2): 185, pl. 24, figs. 7a, b, c. Barton, Bracklesham Bay, England; Eocene. Type BMNH Dept. Geol. No. 71190: 7.7mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra potomacensis Clark & Martin, 1901

Mitra potomacensis Clark & Martin, 1901, Maryland Geol. Surv. p. 133, pl. 21, fig. 11. Popes Creek, Aquian and Nanjemoy form., Maryland; Paleocene. 12.0 x 3.5mm.

The species appears to be a small *Paleosephaea* Wade, 1926, family Fasciolariidae.

Mitra prevosti Roualt, 1848

Mitra prevosti Roualt, 1848, Bull. Soc. géol. France 5: 204; *Voluta prevosti* Roualt, 1850, Mém. Soc. géol. France 3 (5): 499, pl. 18, fig. 14. France; Eocene.

The species should be assigned to the family Volutidae.

Mitra prisca Deshayes, 1865

Mitra prisca Deshayes, 1865, Desc. Anim. sans vert. Bass. Paris 3: 577, pl. 103, figs. 8-10. Brimont, Châlons-sur-Vesle, Paris Basin; Paleocene. 15.0 x 6.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra pristina Yokoyama, 1923

Mitra pristina Yokoyama, 1923, J. Coll. Sci. Imp. Univ. Tokyo 45: 8, pl. 1, figs. 8-12. Dainichi, Totomi, Japan; Pliocene.

According to Hatai & Nisiyama (1952) the species belongs in the family Cancellariidae. *Mitra pristina* Yokoyama, 1926, however, is the species *Nassarius (Coreophos) nakamurai* Kuroda, family Nassariidae.

Vexillum (Latiromitra) problematicum Ponder, 1968

Vexillum (Latiromitra) problematicum Ponder, 1968, Rec. Dom. Mus. 6 (4): 45, pl. 4, figs. 55, 56. Portobello Marine Biol. Station, E. of Taiaroa Heads, New Zealand, 65 fathoms. Type DM No. M-21553: 33.1 x 12.9 x 18.2mm.

A species of *Volutomitra* H. & A. Adams, 1853, subgenus *Latiromitra* Locard, 1897, family Volutomitridae.

Mitra (Pleioptygma) prodroma Gardner, 1937

Mitra (Pleioptygma) prodroma Gardner, 1937, U.S. Geol. Surv. Prof. Pap. No. 142F: 407, pl. 48, figs. 6, 7. 1 mile below Baileys Ferry, Chipola River, Florida; L. Miocene. Type USNM No. 114326: 68.0 x 22.5 x 39.0mm.

A species of *Pleioptygma* Conrad, family Volutidae.

Pterygia pruna Röding, 1798*Pterygia pruna* Röding, 1798, Mus. Bolten. p. 52. Loc.: ?A synonym of *Marginella prunum* (Gmelin, 1791), family Marginellidae.**Mitra pumila** J. de C. Sowerby, 1823*Mitra pumila* J. de C. Sowerby, 1823, Min. Conch. 5: 37, pl. 430, fig. 2. Barton Cliff, England; Eocene.A synonym of *Conomitra parva* (J. de C. Sowerby, 1823), family Volutomitridae.**Mitra cancellina** var. **quadriplicata** Nyst in Dewalque, 1868*Mitra cancellina* var. *quadriplicata* Nyst in Dewalque, 1868, Prodr. géol. Belg., p. 402. Belgium; Tertiary.The species is a probable synonym of *Mitreola labratula* (Lamarck, 1803), family Volutidae.**Mitra rangii** Lesson, 1837*Mitra rangii* Lesson, 1837, Prodr. Méduses p. 10; Roret's Suite Buffon, Acaléphes, p. 280.

The species is not a mollusc.

Mitra raricosta Lamarck, 1803*Mitra raricosta* Lamarck, 1803, Ann. Mus. d'Hist. Nat. Paris 2: 59. Grignon, Paris Basin; Eocene. 9 lignes (= 20.3mm).A species of *Mitreola* Swainson, family Volutidae.**Mitra ravnii** Harder, 1913*Mitra ravnii* Harder, 1913, Danm. Geol. Unders. ser. 2, 22: 84, 129, pl. 7, figs. 2a, b, c, 3. Aarhus, Denmark; Oligocene.

The species probably belongs to the family Volutomitridae.

Turricula reileyi Whitfield, 1892*Turricula reileyi* Whitfield, 1892, U.S. Geol. Surv. Mon. 18: 92, pl. 11, fig. 8. Freehold, Monmouth form., New Jersey; U. Cretaceous.The species is not a mitrid and is probably an *Exilia* Conrad, family Fasciolariidae.**Mitra roborea** Reeve, 1845*Mitra roborea* Reeve, 1845, Conch. Icon. pl. 37, sp. 306. Loc.: ?.The figured specimen appears to be a *Latirus* Montfort, family Fasciolariidae.**Turricula (Costellaria) ruellensis** Gougerot, 1968*Turricula (Costellaria) ruellensis* Gougerot, 1968, Mem. Bur. Rech. Geol. & Min. France No. 58: 234, pl. 2, fig. 5. Le Ruel, Val d'Oise, Paris Basin; U. Eocene. Type Geol. Lab. Faculty of Sci. Paris; 3.1 x 1.5mm.A juvenile specimen of *Conomitra* Conrad, family Volutomitridae.**Mitra rugosa** Philippi, 1847*Mitra rugosa* Philippi, 1847, Palaeontographica 1: 78, pl. 10a, fig. 7. Germany; Tertiary.A synonym of *Voluta semigranosa* Nyst, 1845, family Volutidae, and a homonym of *Mitra rugosa* Swainson in Sowerby, 1825.**Vexillum (Costellaria) rutidolum** Suter, 1917*Vexillum (Costellaria) rutidolum* Suter, 1917, N.Z. Geol. Surv. Pal. Bull. No. 5: 29, pl. 4, fig. 10. Foot of Mt. Horrible, New Zealand; L. Miocene. Type CM No. M-3140: 29.7 x 12.8 x 18.9mm.A species of *Proximitra* Finlay, 1927, family Volutomitridae.**Mitra lineolata saginata** Tucker & Wilson, 1933*Mitra lineolata saginata* Tucker & Wilson, 1933, Bull. Americ. Paleont. 18 (66): 74, pl. 1, figs. 8, 9. Acline, Florida; Miocene. Type USNM: 11.0 x 39.0mm.A variant of *Pleioptygma heilprini* (Cossmann, 1899), family Volutidae.**Mitra scabra** J. de C. Sowerby, 1823*Mitra scabra* J. de C. Sowerby, 1823, Min. Conch. 4: 142, pl. 401, 4 figs. Barton beds, England; Eocene. Type BMNH Dept. Geol.A species of *Mitreola* Swainson, family Volutidae.

Mitra scalariformis Borson, 1820

Mitra scalariformis Borson, 1820, Mem. R. Acc. Sci. Torino 25: 306, pl. 1, fig. 27. Italy; Tertiary.

The species belongs in the family Cancellariidae.

Mitra secalina Koenen, 1890

Mitra secalina Koenen, 1890, Abh. k. Preuss. geol. Reichs. 10 (2): 539, pl. 38, figs. 6a, b, c. Lattorf, Germany; L. Oligocene. 5.6 x 2.2mm.

A species of *Conomitra* Conrad, family Volutomitridae, and a homonym of *Mitra secalina* Gould, 1860.

Mitra sellei de Raincourt, 1885

Mitra sellei de Raincourt, 1885, Bull. Soc. géol. France 13: 472, pl. 15, fig. 8. France; Eocene.

A synonym of *Mitreola raricosta* (Lamarck, 1803), family Volutidae.

Mitra parva var. **semilaevis** F. E. Edwards, 1856

Mitra parva var. *semilaevis* F. E. Edwards, 1856, Mon. Paleont. Soc. England 3 (2): 183. Barton, Alum Bay, England; Eocene.

A synonym of *Conomitra parva* (J. de C. Sowerby, 1823), family Volutomitridae.

Mitra semilaevis Koenen, 1885

Mitra semilaevis Koenen, 1885, Abh. k. Gesell. Wiss. Göttingen 32: 45, pl. 2, figs. 15a, b, c. Copenhagen, Denmark; Paleocene. 6.5 a 3.6 a 3.7mm.

A synonym of *Conomitra danensis* (Cossmann, 1899), family Volutomitridae, and a homonym of *Mitra semilaevis* F. E. Edwards, 1856.

Mitra semimarginata Beyrich, 1854

Mitra semimarginata Beyrich, 1854, Zeit. deut. geol. Gesell. 6: 96, pl. 8, figs. 7a, b. Mecklenburg, Sternberg form., Germany; Oligocene. 7.6 x 3.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra semisculpta Beyrich, 1854

Mitra semisculpta Beyrich, 1854, Zeit. deut. geol. Gesell. 6: 419, pl. 8, figs. 8a, b. Mecklenburg, Sternberg form., Germany; Oligocene. 8.5 a 3.3mm.

A species of *Conomitra* Conrad, family Volutomitridae, and a homonym of *Mitra semisculpta* Adams & Reeve, 1850.

Mitra (Volutomitra) separanda von Maltzan, 1884

Mitra (Volutomitra) separanda von Maltzan, 1884, Nachr. deut. Malak. Gesell. 16: 72. Gorée, Senegambia, West Africa.

A species of *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, family Turridae.

Mitra soellingensis Speyer, 1864

Mitra soellingensis Speyer, 1864, Palaeontographica 9: 257, pl. 1, figs. 1a, b. Söllingen, Germany; Oligocene. 7.0 x 3.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra spinosa Pictet & Campiche, 1864

Mitra spinosa Pictet & Campiche, 1864, Mater. Paleont. Suisse 3: 684 (Ref. to Zekeli, 1852, p. 63, pl. 16, fig. 12), Gosau, Austria; U. Cretaceous.

A new combination for *Fasciolaria spinosa* Zekeli, 1852, which appears to belong to the Turridae.

Callithea spreta A. Adams, 1864

Callithea spreta A. Adams, 1864, J. Linn. Soc. London 7: 201. Mino-Sima, Japan, 63 fathoms. Types BMNH No. 1967887; 8.2mm; 7.8mm; 7.7mm.

The species belongs to the subfamily Mitromorphinae, family Turridae.

Mitra staminea Conrad, 1848

Mitra staminea Conrad, 1848, Proc. Acad. Nat. Sci. Philad. 3: 289; 1848, J. Acad. Nat. Sci. Philad. 1 (2): 120, pl. 12, fig. 4. Vicksburg, Mississippi; Oligocene. 0.4 inch.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra striarella Calcara, 1841

Mitra striarella Calcara, 1841, Mem. Conch. Foss. Altavilla p. 66, pl. 2, fig. 9. Altavilla, Italy; Pliocene.

A synonym of *Mitrolumna olivoidea* (Cantraine, 1835), family Turridae.

Mitra striata Lea, 1833

Mitra striata Lea, 1833, Contrib. Geology p. 174, pl. 6, fig. 184. Claiborne, Alabama; Eocene.

A synonym of *Turbinella pyruloides* Conrad, 1832, family Volutidae, and a homonym of *Mitra striata* Eichwald, 1830.

Mitra striata Brusina, 1865

Mitra striata Brusina, 1865, Vehr. zool.-bot. Gesell. Wien 15: 14. Zara, Dalmatia, Yugoslavia.

A synonym of *Columbella typostigma* (Brusina, 1866) and a homonym of *Mitra striata* Eichwald, 1830.

Mitra subcostulata d'Orbigny, 1852

Mitra subcostulata d'Orbigny, 1852, Prodr. Paleont. Strat. Univ. 3:53. Mouchy, Paris Basin; Eocene.

Proposed as a substitute name for *Mitra costulata* Deshayes, 1835 (non Risso, 1826), the species is a *Mitreola* Swainson, family Volutidae.

Mitra subcrenularis Tate, 1889

Mitra subcrenularis Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 142, pl. 5, fig. 6. Adelaide Bore, Sth. Australia; Pliocene. 11.0 x 4.5 x 6.5mm.

A species of *Microvoluta* Angas, family Volutomitridae.

Mitra subdecussata d'Orbigny, 1852

Mitra subdecussata d'Orbigny, 1852, Prodr. Paleont. Strat. Univ. 3: 53. Tour, France; Miocene.

The species is a synonym of *Mitrolumna decussata* (Dujardin, 1837), family Turridae. The substitute name proposed by d'Orbigny is superfluous since *Mitra decussata* Dujardin is not a secondary homonym of *Voluta decussata* Gmelin, 1791.

Mitra subplicata Deshayes, 1835

Mitra subplicata Deshayes, 1835, Desc. coq. foss. env. Bass. Paris 2: 675, pl. 89, figs. 1, 2.

Grignon, Parnes, Valmondois, Paris Basin; Eocene. 33.0mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra subpontis Harris, 1896

Mitra subpontis Harris, 1896, Bull. Americ. Paleont. 1 (4): 86, pl. 8, figs. 7, 7a. Ft. Gaines, U. beds of Midway horizon, Georgia; Paleocene. 28.0mm.

The species has a prominent varix on the body whorl, 4 strong and subequal folds anteriorly and 2 to 3 smaller folds posteriorly. It is not a mitrid and may possibly belong to the family Fasciolariidae.

Pterygia subterranea Röding 1798

Pterygia subterranea Röding, 1798, Mus. Bolten, p. 51. Loc.: ?

This is the same as *Pterygia effossa* Röding, 1798, and is a prior name for *Eucithara citharella* (Lamarck, 1822), family Turridae.

Mitra subulata Grateloup, 1847

Mitra subulata Grateloup, 1847, Conch. foss. terr. Tert. Adaour, Atlas pl. 1, fig. 18. Dax, France; L. Miocene.

A synonym of *Columbella subulata* Brocchi, 1814, family Columbellidae, and a homonym of *Mitra subulata* Lamarck, 1811.

Mitra sulcifera Koenen, 1890

Mitra sulcifera Koenen, 1890, Abh. k. Preuss. geol. Reichs. 10 (2): 535, pl. 38, figs. 2a, b, c. Lüttorf, Germany; Oligocene. 8.4 a 3.3mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Vexillum suteri Finlay, 1924

Vexillum suteri Finlay, 1924, Proc. Malac. Soc. London 16 (2): 102. Waitaki River, Wharekuri, Waitaki Valley, New Zealand; U. Oligocene.

Proposed as a substitute name for *Vexillum ligatum* Suter, 1917, the species is a synonym of *Waimatea enysi* (Hutton, 1873), family Volutomitridae.

Mitra tenuiplicata Vasseur, 1881

Mitra tenuiplicata Vasseur, 1881, Rech. geol. terr. Tert. France, Paleont. Atlas pl. 1, fig. 16. Bassin Campon, France; Eocene.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra terebraeformis Conrad, 1848

Mitra terebraeformis Conrad, 1848, J. Acad. Nat. Sci. Philad. ser. 2, 1: 132, pl. 14, fig. 30. Gosport, Alabama; Eocene.

This is the type species of *Pyramimitra* Conrad, 1865, family Buccinidae.

Mitra teretiuscula Thiele, 1925

Mitra teretiuscula Thiele, 1925, Wiss. Erg. deut. Tief. Exp. "Valdivia" 17: 185, pl. 20, fig. 23. Agulhas Bank, Sth. Africa, 155 metres. 8.0 x 30mm.

A species of *Microvoluta* Angas, family Volutomitridae.

Mitra teraptycta Cossmann, 1885

Mitra teraptycta Cossmann, 1885, J. Conchyl. 33: 128, pl. 6, fig. 8. Herouval, France; Eocene. 8.0 x 4.0mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Turicula (Conomitra) texana Harris, 1895

Turicula (Conomitra) texana Harris, 1895, Proc. Acad. Nat. Sci. Philad. 47: 69, pl. 6, fig. 11. Well at College Sta., Brazos County, Claiborne, Texas; M. Eocene. 7.5 x 3.0mm. Type lost.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra (Thala?) torticula Dall, 1889

Mitra (Thala?) torticula Dall, 1889, Bull. Mus. Comp. Zool. Harvard 18: 162, pl. 15, fig. 8. Off Morro, Havana, Cuba, 400 fathoms. Type USNM No. 508727: 12.2 x 4.0 x 5.5mm.

A species of *Mitromorpha* Carpenter, 1865, family Turridae.

Mitra tringa Lamarck, 1811

Mitra tringa Lamarck, 1811, Ann. Mus. d'Hist. Nat. Paris 17: 211. Mediterranean and coasts of Africa.

A new combination for *Voluta tringa* Linnaeus, 1758, family Columbellidae.

Mitra turgidula Borson, 1820

Mitra turgidula Borson, 1820, Mem. R. Acc. Sci. Torino 25: 207. Piedmont, Italy; Pliocene. A new combination for *Columbella turgidula* (Brocchi, 1814), family Columbellidae.

Mitra typostigma Brusina, 1866

Mitra typostigma Brusina, 1866, Vehr. zool.-bot. Gesell. Wien Suppl. 16: 67. Zara, Dalmatia, Yugoslavia.

Proposed as a substitute name for *Mitra striata* Brusina, 1865 (non Eichwald, 1830), the species belongs in the family Columbellidae.

Mitra umbilicaris Sasso, 1827

Mitra umbilicaris Sasso, 1827, Giorn. Lig. Sci. Genova 1: 481 (Ref. to Brocchi, 1814, pl. 3, figs. 10, 11). Albenga Basin, Italy; Miocene.

The species belongs in the family Cancellariidae.

Mitra cotteai var. **umbilicata** Cossmann & Lambert, 1884

Mitra cotteai var. *umbilicata* Cossmann & Lambert, 1884, Mém. Soc. géol. France 3: 180, pl. 6, figs. 13c, d. Pierrefitte, d'Etampes, France; Oligocene. 19.0 x 7.0mm.

A synonym of *Conomitra cotteai* (Cossmann & Lambert, 1884), family Volutomitridae.

Mitra varicosa Sowerby, 1850

Mitra varicosa Sowerby, 1850, Quart. J. Geol. Soc. London 6: 46. Dominica, Caribbean; Miocene.

This is the type species of *Paraborsonia* Pilsbry, 1922, family Turridae.

Mitra varicosa Tate, 1889

Mitra varicosa Tate, 1889, Trans. R. Soc. Sth. Aust. 11: 138, pl. 5, fig. 1. Adelaide Bore, Sth. Australia; Pliocene. 24.0 x 10.0 x 13.0mm.

The figured specimen appears to be a *Latirus* Montfort, family Fasciolariidae. The specific name is a homonym of *Mitra varicosa* Sowerby, 1850.

Mitra ventricosa Hutton, 1873

Mitra ventricosa Hutton, 1873, Cat. Tert. Moll. Echin. N.Z. p. 8. Broken River, New Zealand; U. Oligocene.

The species belongs in the family Marginellidae. The specific name is a homonym of *Mitra ventricosa* Risso, 1826.

Mitra vicina Briart & Cornet, 1871

Mitra vicina Briart & Cornet, 1871, Mem. Acad. R. Sci. Lett. Art. Belg. 36: 70, pl. 5, figs. 4a, b. Mons, Belgium; Paleocene. 12.5 x 5.5mm.

The species belongs in the family Volutidae.

Mitra vicksburgensis Conrad, 1848

Mitra vicksburgensis Conrad, 1848, Proc. Acad. Nat. Sci. Philad. 3: 289. Vicksburg, Mississippi; Oligocene. Type ANSP No. 13458.

A synonym of *Conomitra staminea* (Conrad, 1848), family Volutomitridae.

Mitra (Conomitra) vincenti Cossmann, 1889

Mitra (Conomitra) vincenti Cossmann, 1889, Ann. Soc. R. Malac. Belg. 24: 187, pl. 6, figs. 5, 6. Marines, Paris Basin; Eocene. 9.0 x 5.0mm.

A synonym of *Conomitra vincentiana* (Cossmann, 1881), family Volutomitridae.

Pterygia volva Röding, 1798

Pterygia volva Röding, 1798, Mus. Bolten. p. 52. Loc.: ?

A synonym of *Amoria volva* (Gmelin, 1791), family Volutidae.

Pterygia vulgaris Röding, 1798

Pterygia vulgaris Röding, 1798, Mus. Bolten. p. 51. Loc.: ?

A synonym of *Pyrene (Columbella) mercatoria* (Linnaeus, 1758), family Columbellidae.

Vexillum waitei Suter, 1909

Vexillum waitei Suter, 1909, Rec. Canterbury Mus. 1 (2): 124, pl. 12, fig. 3. 21½ miles N.E. of Wreck Reef, Stewart I., New Zealand, 50-54 fathoms. Type CM.

This is the type species of *Egestas* Finlay, 1927, which is non mitrid and may possibly belong to the family Fasciolariidae.

Mitra washingtoniana Weaver, 1912

Mitra washingtoniana Weaver, 1912, Bull. Washington Geol. Surv. No. 15: 52, pl. 2, fig. 16. Cowlitz formation, Maryland; U. Eocene. 12.0 x 5.5mm.

A species of *Mitreola* Swainson, family Volutidae.

Mitra wateleti Briart & Cornet, 1871

Mitra wateleti Briart & Cornet, 1871, Mem. Acad. R. Sci. Lett. Art. Belg. 36: 75, pl. 5, figs. 9a, b, c. Mons, Belgium; Paleocene. 12.5 x 4.5mm.

A species of *Conomitra* Conrad, family Volutomitridae.

Mitra (Diptychomitra) wernerii Böttger, 1902

Mitra (Diptychomitra) wernerii Böttger, 1902, Verh. Mitt. Ver. Nat. Herrmannstadt 51: 15. Kostej, Banat, Hungary; Miocene. Type SMF.

The species belongs in the subfamily Mitromorphinae, family Turridae.

Mitra zebra Küster, 1839

Mitra zebra Küster, 1839, Syst. Conch. Cab. ed. 2, pl. 74, pl. 11, figs. 6, 7. Indian Ocean.

A synonym of *Zebramoria lineatina* Weaver & duPont, 1967, family Volutidae, and a homonym of *Mitra zebra* Lamarck, 1811.

Mitra zekelii Pictet & Campiche, 1864

Mitra zekelii Pictet & Campiche, 1864, Mater. Paleont. Suisse 3: 683. Gosau, Austria; U. Cretaceous.

Proposed as a substitute name for *Fasciolaria gracilis* Zekeli, 1852, the species belongs in the family Fasciolariidae.

Mitra zilpha Dall, 1927

Mitra zilpha Dall, 1927, Proc. U.S. Nat. Mus. 70: 49. Off Georgia and Fernandina, Florida. 6.0 x 3.0 x 3.0mm.

The species should be referred to the subfamily Mitromorphinae, family Turridae.

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